

FORM PTO-1449

JUN 09 2004

INFORMATION DISCLOSURE STATEMENT

TRADEMARK OFFICE

ATTY. DOCKET NO.
0942.5580002/BJD/JKMAPPLICATION NO.
10/655,579FIRST NAMED INVENTOR
Park et al.FILING DATE
September 5, 2003ART UNIT
1634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
SKM	AA1	4,683,195	07/28/1987	Mullis et al.			02/07/1986
	AB1	4,683,202	07/28/1987	Mullis			10/25/1985
	AC1	4,800,159	01/24/1989	Mullis et al.			12/17/1986
	AD1	4,889,818	12/26/1989	Gelfand et al.			06/17/1987
	AE1	4,965,188	10/23/1990	Mullis et al.			06/17/1987
	AF1	5,047,342	09/10/1991	Chatterjee			08/10/1989
	AG1	5,079,352	01/07/1992	Gelfand et al.			05/15/1990
	AH1	5,223,409	06/29/1993	Ladner et al.			03/01/1991
	AI1	5,244,797	09/14/1993	Kotewicz et al.			03/18/1991
	AJ1	5,270,179	12/14/1993	Chatterjee			01/28/1992
V	AK1	5,338,671	08/16/1994	Scalice et al.			10/07/1992

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
SKM	AL1	EP 0 329 822	06/08/1994	Europe			Yes No
	AM1	EP 0 684 315	06/26/2002	Europe			Yes No
	AN1	WO 89/06691	07/27/1989	WIPO			Yes No
V	AO1	WO 90/02809	03/22/1990	WIPO			Yes No
	AP1	WO 91/09944	07/11/1991	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	1	Alani, E., et al., "Characterization of DNA-binding and Strand-exchange Stimulation Properties of γ -RPA, a Yeast Single-strand-DNA-binding Protein," <i>J. Mol. Biol.</i> 227:54-71, Academic Press Ltd. (1992).
	AS	1	Barbas III, C.F., et al., "Assembly of combinatorial antibody libraries on phage surfaces: The gene III site," <i>Proc. Natl. Acad. Sci.</i> 88:7978-7982, National Academy of Sciences (1991).
V	AT	1	Barnes, W.M., "The fidelity of Taq polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35, Elsevier Science B.V. (1992).

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SKM	AA2	5,374,553	12/20/1994	Gelfand et al.			08/13/1990
	AB2	5,409,818	04/25/1995	Davey et al.			06/24/1988
	AC2	5,436,149	07/25/1995	Barnes			02/19/1993
	AD2	5,449,603	09/12/1995	Nielson et al.			10/24/1989
	AE2	5,455,166	10/03/1995	Walker			01/09/1992
	AF2	5,512,462	04/30/1996	Cheng			02/25/1994
	AG2	5,532,600	07/02/1996	Hoshino			10/27/1994
	AH2	5,605,824	02/25/1997	Nielson et al.			06/16/1993
	AI2	5,614,365	03/25/1997	Tabor et al.			11/10/1994
↓	AJ2	5,646,019	07/08/1997	Nielson et al.			04/07/1994
↓	AK2	5,587,287	12/24/1996	Scalice et al.			04/07/1994

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SKM	AL2	WO 91/09950	7/11/1991	WIPO			Yes No
	AM2	WO 91/17271	11/14/1991	WIPO			Yes No
	AN2	WO 92/01047	01/23/1992	WIPO			Yes No
↓	AO2	WO 92/03556	03/05/1992	WIPO			Yes No
↓	AP2	WO 92/06188	04/16/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	2	Barns, S.M., et al., "Perspectives on archaeal diversity, thermophily and monophyly from environmental rRNA sequences," <i>Proc. Natl. Acad. Sci.</i> 93:9188-9193, National Academy of Sciences (1996).
	AS	2	Brown, J.P., et al., "Structural Characterization of Human Melanoma-Associated Antigen p97 with Monoclonal Antibodies," <i>J. Immunol.</i> 127:539-546, American Association of Immunologists (1981).
↓	AT	2	Brown, J.P., et al., "Protein Antigens of Normal and Malignant Human Cells Identified by Immunoprecipitation with Monoclonal Antibodies," <i>J. Biol. Chem.</i> 255:4980-4983, American Society of Biological Chemists (1980).

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SKM	AA3	5,605,824	02/25/1997	Nielson et al.			06/16/1993
	AB3	5,773,257	06/30/1998	Nielson et al.			06/06/1995
↓	AC3	5,972,650	10/26/1999	Yao			06/26/1997
	AD3	6,077,664	06/20/2000	Slater et al.			05/31/1996
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SKM	AL3	WO 92/06200	04/16/1992	WIPO			Yes No
	AM3	WO 92/09690	06/11/1992	WIPO			Yes No
	AN3	WO 92/15679	09/17/1992	WIPO			Yes No
↓	AO3	WO 92/18619	10/29/1992	WIPO			Yes No
	AP3	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	3	Chédin, F., et al., "Novel homologs of replication protein A in Archaea: implications for the evolution of ssDNA-binding proteins," <i>Trends Biochem. Sci.</i> 23:273-277, Elsevier Science (1998).
	AS	3	Chou, Q., "Minimizing deletion mutagenesis artifact during Taq DNA polymerase PCR by <i>E. coli</i> SSB," <i>Nucl. Acids Res.</i> 20:4371, IRL Press (1992).
↓	AT	3	Chou, Q., et al., "Prevention of pre-PCR mis-priming and primer dimerization improves low-copy-number amplifications," <i>Nucl. Acids Res.</i> 20:1717-1723, Oxford University Press (1992).

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SKM	AL4	WO 93/01288	01/21/1993	WIPO			X Yes No
	AM4	WO 94/26766	11/24/1994	WIPO			Yes No
	AN4	WO 96/10640	04/11/1996	WIPO			Yes No
↓	AO4	WO 97/09451	03/13/1997	WIPO			Yes No
↓	AP4	WO 98/47912	10/29/1998	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	4	Clackson, T., et al., "Making antibody fragments using phage display libraries," <i>Nature</i> 352:624-628, Macmillan Ltd. (1991).
	AS	4	Cole, S.P.C., et al., "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer," <i>Monoclonal Antibodies and Cancer Therapy</i> 77-96, Alan R. Liss, Inc. (1985).
↓	AT	4	Dabrowski, S., and Kur, J., "Cloning, Overexpression, and Purification of the Recombinant His-Tagged SSB Protein of <i>Escherichia coli</i> and Use in Polymerase Chain Reaction Amplification," <i>Protein Expr. Purif.</i> 16:96-102, Academic Press (1999).

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SKM	AL5	WO 00/52027	09/08/2000	WIPO			Yes No
↓	AM5	WO 01/02559	01/11/2001	WIPO			Yes No
↓	AN5	WO 02/19822	03/14/2002	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	5	Ewing, B., et al., "Base-Calling of Automated Sequencer Traces Using Phred. I. Accuracy Assessment," <i>Genome Res.</i> 8:175-185, Cold Spring Harbor Laboratory Press (1998).
↓	AS	5	Ewing, B., et al., "Base-Calling of Automated Sequencer Traces Using Phred. II. Error Probabilities," <i>Genome Res.</i> 8:186-194, Cold Spring Harbor Laboratory Press (1998).
↓	AT	5	Flaman, J-M., et al., "A rapid PCD fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260, Oxford University Press (1994).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
SKM	AR	6		Fujii, S., et al., "DNA Replication Errors Produced by the Replicative Apparatus of <i>Escherichia coli</i> " <i>J. Mol. Biol.</i> 289:835-850, Academic Press (1999).			
	AS	6		Fuchs, P., et al., "Targeting Recombinant Antibodies to the Surface of <i>Escherichia coli</i> : Fusion to a Peptidoglycan Associated Lipoprotein," <i>Bio/Technology</i> 9:1369-1372, Nature America Inc. (1991).			
↓	AT	6		Galfre, G., et al. "Antibodies to major histocompatibility antigens produced by hybrid cell lines," <i>Nature</i> 266:550-552, Macmillan Ltd. (1977).			

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	AN						Yes
	AO						No
	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	7	Garrard, L.J., et al., "F _{AB} Assembly and Enrichment in a Monovalent Phage Display System," <i>Bio/Technology</i> 9:1373-1377, Nature America Inc. (1991).
	AS	7	Gefter, M.L., et al., "A Simple Method for Polyethylene Glycol-Promoted Hybridization of Mouse Myeloma Cells," <i>Somatic Cell Genet.</i> 3:231-236, Plenum Publishing Corp. (1977).
↓	AT	7	Gerard, G.F., et al., "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>FOCUS</i> 14:91-93, Life Technologies, Inc. (1992).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	8	Glover, B.P., and McHenry, C.S., "The $\chi\psi$ Subunits of DNA Polymerase III Holoenzyme Bind to Single-stranded DNA-binding Protein (SSB) and Facilitate Replication of an SSB-coated Template," <i>J. Biol. Chem.</i> 273:23476-23484, The American Society for Biochemistry and Molecular Biology, Inc. (1998).
	AS	8	Gram, H., et al., "In vitro selection and affinity maturation of antibodies from a naïve combinatorial immunoglobulin library," <i>Proc. Natl. Acad. Sci.</i> 89:3576-3580, National Academy of Sciences (1992).
↓	AT	8	Griffiths, A.D., et al., "Human anti-self antibodies with high specificity from phage display libraries," <i>EMBO J.</i> 12:725-734, Oxford University Press (1993).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

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SKM	AR	9	Gubler, U., and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," <i>Gene</i> 25:263-269, Elsevier Science (1983).
	AS	9	Haseltine C.A., and Kowalczykowski, S.C., "A distinctive single-stranded DNA-binding protein from the Archaeon <i>Sulfolobus solfataricus</i> ," <i>Mol. Microbiol.</i> 43:1505-1515, Blackwell Science Ltd. (2002).
↓	AT	9	Hawkins, R.E., et al., "Selection of Phage Antibodies by Binding Affinity Mimicking Affinity Maturation," <i>J. Mol. Biol.</i> 226:889-896, Academic Press Ltd. (1992).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	<u>10</u>	Hay, B.N., et al., "Bacteriophage cloning and <i>Escherichia coli</i> expression of a human IgM Fab," <i>Hum. Antibod. Hybridomas</i> 3:81-85, Butterwoth-Heinemann (1992).
	AS	<u>10</u>	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," <i>Nucl. Acids Res.</i> 19:4133-4137, Oxford University Press (1991).
↓	AT	<u>10</u>	Huse, W.D., et al., "Generation of a Large Combinatorial Library of the Immunoglobulin Repertoire in Phage Lambda," <i>Science</i> 246:1275-1281, American Association for the Advancement of Science (1989).

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	AO						Yes No
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SKM	AR	11	Kelly, T.J., et al., "Identification and characterization of a single-stranded DNA-binding protein from the archaeon <i>Methanococcus jannaschii</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 95:14634-14639, National Academy of Sciences (1998).
	AS	11	Kennett, R.H., et al., "Monoclonal Antibodies against Human Tumor-Associated Antigens," in <i>Monoclonal Antibodies; Hybridomas: A New Dimension In Biological Analyses</i> , Kennett, R.H., et al., eds., Plenum Press., New York, N.Y., pp. 155-168 (1980).
↓	AT	11	Kim, Y.T., et al., "Interactions of Gene 2.5 Protein and DNA Polymerase of Bacteriophage T7," <i>J. Biol. Chem.</i> 267:15032-15040, American Society for Biochemistry and Molecular Biology, Inc. (1992).

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SKM	AR	<u>12</u>	Kim, Y.T., and Richardson, C.C., "Acidic Carboxy-terminal Domain of Gene 2.5 Protein of Bacteriophage T7 is Essential for Protein-Protein Interactions," <i>J. Biol. Chem.</i> 269:5270-5278, American Society for Biochemistry and Molecular Biology, Inc. (1994).
	AS	<u>12</u>	Klenk, H-P., et al., "The complete genome sequence of the hyperthermophilic, sulphate-reducing archaeon <i>Archaeoglobus fulgidus</i> ," <i>Nature</i> 390:364-378, Macmillan Ltd. (1997).
↓	AT	<u>12</u>	Köhler, G., and Milstein, C., "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> 256:495-497, Macmillan Ltd. (1975).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

SKM	AR	13	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277, IRL Press (1988).
	AS	13	Kozbor, D., and Roder, J.C., "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> 4:72-79, Elsevier Biomedical Press (1983).
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
0942.5580002/BJD/JKMAPPLICATION NO.
10/655,579FIRST NAMED INVENTOR
Park et al.FILING DATE
September 5, 2003ART UNIT
1634**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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	AN						Yes No
	AO						Yes No
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SKM	AR	<u>14</u>	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287, Cold Spring Harbor Laboratory Press (1993).
	AS	<u>14</u>	Lee, J., et al., "Coordinated Leading and Lagging Strand DNA Synthesis on a Minicircular Template," <i>Mol. Cell</i> 1:1001-1010, Cell Press (1998).
↓	AT	<u>14</u>	Lerner, E.A.: "How to Make a Hybridoma," <i>Yale J. Biol. Med.</i> 54:387-402, Yale Journal of Biology and Medicine Inc. (1981).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT			FIRST NAMED INVENTOR Park et al.	
			FILING DATE September 5, 2003	ART UNIT 1634

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	AP						Yes
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SKM	AR	15	Maniatis, T., et al., "The Isolation of Structural Genes from Libraries of Eucaryotic DNA," <i>Cell</i> 15:687-701, MIT (1978).
	AS	15	McCafferty, J., et al., "Phage antibodies: filamentous phage displaying antibody variable domains," <i>Nature</i> 348:552-554, Macmillan Ltd. (1990).
↓	AT	15	Murzin, A.G., "OB (oligonucleotide/oligosaccharide binding)-fold: common structural and functional solution for non-homologous sequences," <i>EMBO J.</i> 12:861-867, Oxford University Press (1993).

EXAMINER <i>/Stephanie Mummert/ (08/03/2006)</i>	DATE CONSIDERED <i>08/03/2006</i>
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SKM	AR	16	Okayama, H., and Berg, P., "High-Efficiency Cloning of Full-Length cDNA," <i>Mol. Cell. Biol.</i> 2:161-170, American Society for Microbiology (1982).
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↓	AT	16	Rapley, R., "Enhancing PCR Amplification and Sequencing Using DNA-Binding Proteins," <i>Mol. Biotechnol.</i> 2:295-298, Humana Press (1994).

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SKM	AR	17	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491, American Association for the Advancement of Science (1988).
	AS	17	Sharkey, D.J., et al., "Antibodies as Thermolabile Switches: High Temperature Triggering for the Polymerase Chain Reaction," <i>Bio/Technology</i> 12:506-509, Nature America Inc. (1994).
↓	AT	17	Smith, D.R., et al., "Complete Genome Sequence of <i>Methanobacterium thermoautotrophicum</i> ΔH: Functional Analysis and Comparative Genomics," <i>J. Bacteriol.</i> 179:7135-7155, American Society for Microbiology (1997).

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SKM	AR	18	Stemmer, W.P.C., et al., "Single-step assembly of a gene and entire plasmid from large numbers of oligodeoxyribonucleotides," <i>Gene</i> 164:49-53, Elsevier Science B.V. (1995).
	AS	18	Wadsworth, R.I.M., and White, M.F., "Identification and properties of the crenarchaeal single-stranded DNA binding protein from <i>Sulfolobus solfataricus</i> ," <i>Nucl. Acids Res.</i> 29:914-920, Oxford University Press (2001).
↓	AT	18	Woese, C.R., and Fox, G.E., "Phylogenetic structure of the prokaryotic domain: The primary kingdoms," <i>Proc. Natl. Acad. Sci.</i> 74:5088-5090, National Academy of Sciences (1977).

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SKM	AR	<u>19</u>	Woese, C.R., et al., "Towards a natural system of organisms: Proposal for the domains Archaea, Bacteria, and Eucarya," <i>Proc. Natl. Acad. Sci.</i> 87:4576-4579, National Academy of Sciences (1990).
	AS	<u>19</u>	Yeh, M-Y., et al., "Cell surface antigens of human melanoma identified by monoclonal antibody," <i>Proc. Natl. Acad. Sci.</i> 76:2927-2931, National Academy of Sciences (1979).
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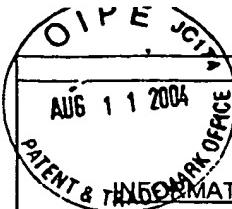
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SKM	AE3	6,140,086	10/31/2000	Fox et al.			08/14/1998
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